## CLAIMS

- 1 1. A coalescer media flexible container for retaining
- 2 coalescer media in the coalescer chamber of an oil-water
- 3 separator, said coalescer media flexible container
- 4 comprising
- a flexible enclosure having a top surface and a bottom
- 6 surface, said top surface and said bottom surface being
- 7 connected to each other, said flexible enclosure conforming
- 8 to the shape of the coalescer chamber in which said
- 9 flexible enclosure is placed, said flexible enclosure
- 10 having an interior, said flexible enclosure fabricated so
- 11 as to permit oil to easily pass into said interior of said
- 12 flexible enclosure, and
- randomly arranged, loosely packed coalescing medium
- 14 retained in said interior of said flexible enclosure.
  - 1 2. The coalescer media flexible container according to
  - 2 claim 1 wherein said flexible enclosure is fabricated from

- 3 a group of materials including plastic mesh, reinforced
- 4 aerated plastic bags, wire mesh, fabric mesh, and netting.
- 1 3. The coalescer media flexible container according to
- 2 claim 1 which includes a planar sheetform member, said
- 3 sheetform member being placed in the interior of said
- 4 flexible enclosure directly adjacent said bottom surface.
- 1 4. The coalescer media flexible container according to
- 2 claim 3 wherein said sheetform member is secured to said
- 3 bottom surface.
- 1 5. The coalescer media flexible container according to
- 2 claim 2 wherein said flexible enclosure is fabricated from
- 3 polypropylene.
- 1 6. The coalescer media flexible container according to
- 2 claim 1 which includes retrieval means secured to said
- 3 flexible enclosure.

- 1 7. The coalescer media flexible container according to
- 2 claim 6 wherein said retrieval means are secured to said
- 3 top surface of said flexible enclosure.
- 1 8. The coalescer media flexible container according to
- 2 claim 6 which includes at least a pair of retrieval means
- 3 and wherein said flexible enclosure has a first end and a
- 4 second end, at least one of said retrieval means being
- 5 secured to said first end and at least one other of said
- 6 retrieval means being secured to said second end.
- 1 9. In combination a coalescer chamber of an oil-water
- 2 separator and at least one coalescer media flexible
- 3 container for retaining coalescer media in said coalescer
- 4 chamber,
- 5 said coalescer chamber comprising a frame and a lid,
- 6 said frame having a base, said frame also having secured
- 7 thereto first and second sidewalls, said first and second
- 8 sidewalls fabricated so as to permit liquids to easily pass
- 9 therethrough, and
- 10 said coalescer media flexible container comprising

- 11 a flexible enclosure containing randomly arranged, loosely
- 12 packed coalescing media, said flexible enclosure having a
- 13 top surface and a bottom surface, said top surface and said
- 14 bottom surface being connected to each other, said flexible
- 15 enclosure conforming to the shape of said coalescer chamber
- 16 in which said flexible enclosure is placed, said flexible
- 17 enclosure having an interior, said flexible enclosure
- 18 fabricated so as to permit liquids to easily pass into said
- 19 interior of said flexible enclosure.
- 1 10. The combination according to claim 9 wherein said
- 2 coalescer chamber sidewalls are fabricated from a steel
- 3 mesh screening.
- 1 11. The combination according to claim 9 wherein said
- 2 frame has attached thereto a pair of anchoring rods, said
- 3 anchoring rods extending substantially parallel to said
- 4 coalescer chamber sidewalls.
- 1 12. The combination according to claim 9 wherein said
- 2 coalescer media flexible container includes a planar

- 3 sheetform member, said sheetform member being placed in the
- 4 interior of said flexible enclosure directly adjacent said
- 5 bottom surface, said bottom surface also being directly
- 6 adjacent said coalescer chamber frame base.
- 1 13. The combination according to claim 9 wherein said
- 2 coalescer media flexible container has retrieval means
- 3 secured to said top surface of said flexible enclosure.
- 1 14. The combination according to claim 9 which includes a
- 2 plurality of coalescer media flexible containers retained
- 3 within said coalescer chamber, said flexible enclosures
- 4 conforming to the shape of said coalescer chamber in which
- 5 said flexible enclosures are placed, each of said coalescer
- 6 media flexible containers having retrieval means secured to
- 7 each of said flexible enclosures, said retrieval means
- 8 extending beyond said coalescer chamber.
- 1 15. The combination according to claim 9 which includes a
- 2 plurality of coalescer media flexible containers retained
- 3 in horizontal layers within said coalescer chamber.

- 1 16. The method of removing dirty and replacing clean
- 2 coalescer media from the coalescer chamber of an oil-water
- 3 separator, comprising the steps of:
- 4 obtaining access to the coalescer chamber from the top
- 5 of the tank used as the housing for the separator,
- 6 removing the lid of the coalescer chamber,
- 7 removing each coalescer media flexible container
- 8 retained within said coalescer chamber,
- once the coalescer chamber is empty, lowering each
- 10 coalescer media flexible container filled with clean
- 11 coalescer media into said coalescer chamber,
- 12 performing any adjustment of said coalescer media
- 13 flexible container so that it conforms to the shape of the
- 14 coalescer chamber, and
- 15 replacing the lid atop said coalescer chamber.
  - 1 17. The method according to claim 16 wherein each
- 2 coalescer media flexible container has attached thereto
- 3 retrieval means, said retrieval means enabling said
- 4 flexible container to be removed from said coalescer
- 5 chamber, said retrieval means enabling said coalescer media

- 6 flexible container with clean media to be lowered into said
- 7 coalescer chamber, and said retrieval means enabling
- 8 adjustment within said coalescer chamber of said coalescer
- 9 media flexible container with clean media.
- 1 18. The method according to claim 16 which includes the
- 2 additional step of tamping at least one coalescer media
- 3 flexible container.
- 1 19. The method according to claim 16 which includes the
- 2 additional steps of removing and replacing of a plurality
- 3 of coalescer media flexible containers, said containers
- 4 when replaced being oriented substantially horizontal one
- 5 to another.
- 1 20. The method according to claim 19 wherein said
- 2 coalescer media flexible containers each have a top surface
- 3 and a bottom surface, with said top and bottom surfaces
- 4 being skewed with respect to each other.